



Name:

Date:

## Student Exploration: Basic Prism

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** angle of incidence, angle of refraction, critical angle, dispersion, index of refraction, medium, prism, refract, Snell's law, total internal reflection, visible spectrum, wavelength

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

A **prism** is a transparent object that can be used to bend, or **refract**, light. The photo below shows what happens when sunlight passes through a prism.



1. What do you see?

2. What does this indicate about the composition of sunlight?

### Gizmo Warm-up

The *Basic Prism* Gizmo allows you to investigate how a prism refracts light. The Gizmo shows a laser emitting a beam of light through a triangular prism.



To begin, check that **Single color beam** is selected,  **$\lambda$**  is 500 nm,  **$n$**  is 1.50,  **$w$**  is 2.0, and the angle ( **$\theta$** ) is 0°.

1. What do you notice about the path of light when it passes through the prism?

2. Move the  **$\lambda$**  slider to increase and then to decrease the **wavelength** of the beam of light.

A. How does this affect the color of the light ray?

B. How does this affect the direction of the light ray?

# Basic Prism Gizmo Answer Key

**Mark Steyvers**



**Basic Prism Gizmo Answer Key:**

## **Basic Prism Gizmo Answer Key** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Basic Prism Gizmo Answer Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://matrix.jamesarcher.co/results/scholarship/index.jsp/habit%20building%20planner%20primer.pdf>

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### **Basic Prism Gizmo Answer Key Introduction**

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### **FAQs About Basic Prism Gizmo Answer Key Books**

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